

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,891,462 B2
APPLICATION NO. : 10/667386
DATED : May 10, 2005
INVENTOR(S) : Andoh et al.

Page 1 of 7

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing the illustrative figure should be deleted to be replaced with the attached title page.

The drawing sheet, consisting of Figs. 4a-4e, should be deleted to be replaced with drawing sheet, consisting of Figs. 4a-4e, as shown on the attached page.

Title Page

In the title page, in Field 56, under the heading U.S. PATENT DOCUMENTS, please add

--4,873,757 10/1989 Williams--.

Drawings

Replace drawings sheets 1, 2, 3, 4, and 9 with the drawing sheets shown on the attached pages.

Signed and Sealed this

Twelfth Day of December, 2006

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Andoh et al.

(10) Patent No.: **US 6,891,462 B2**
(45) Date of Patent: **May 10, 2005**

(54) **HIGH-Q INDUCTOR FOR HIGH FREQUENCY**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/667,386

(22) Filed: Sep. 23, 2003

(65) **Prior Publication Data**

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Related U.S. Application Data

(62) Division of application No. 10/043,222, filed on Jan. 14, 2002, now Pat. No. 6,664,882, which is a division of application No. 09/454,610, filed on Dec. 7, 1999, now abandoned.

(30) **Foreign Application Priority Data**

Dec. 11, 1998 (JP) H10-353078

(51) Int. Cl.⁷ H01F 5/00

(52) U.S. Cl. 336/200; 336/232; 336/223

(58) Field of Search 336/200, 232, 336/223

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H. Tsujimoto, "Design and Simulation of Film Transformer on Flexible Polyamide Film in Very High Frequency Range", IEEE Transactions on Magnetics, vol. 34, No. 4, Jul. 1998, pp. 1357-1359.

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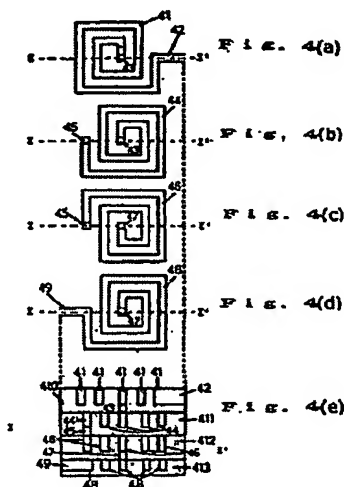
Primary Examiner—Anh Mai

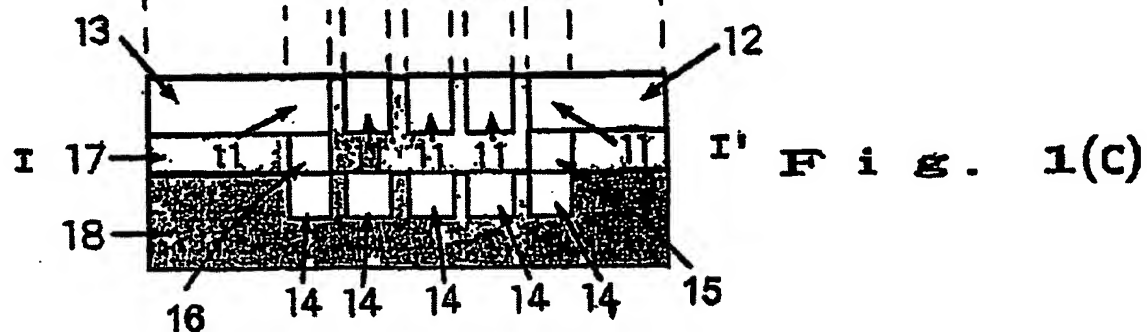
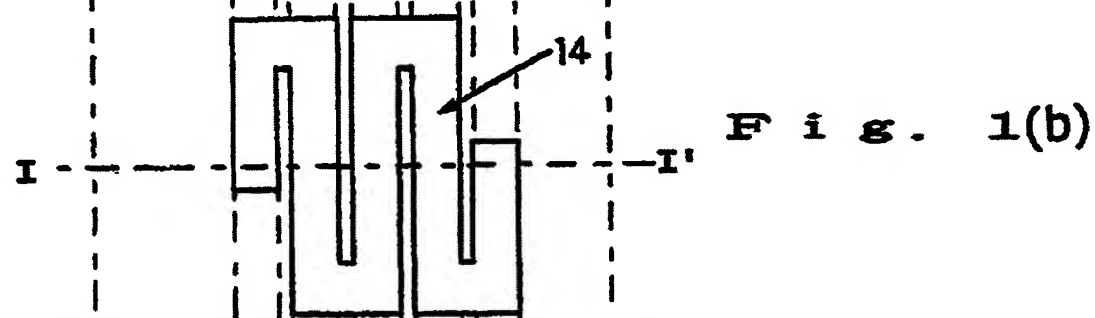
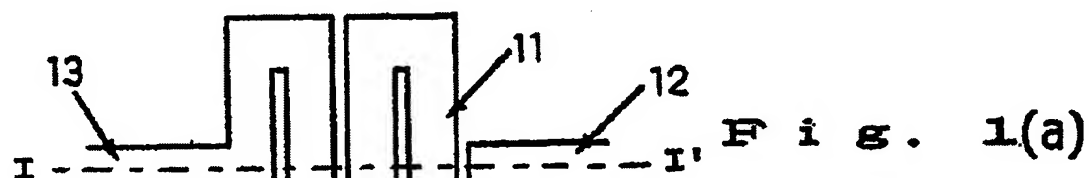
(74) Attorney, Agent, or Firm—Smith, Gambrell & Russell, LLP

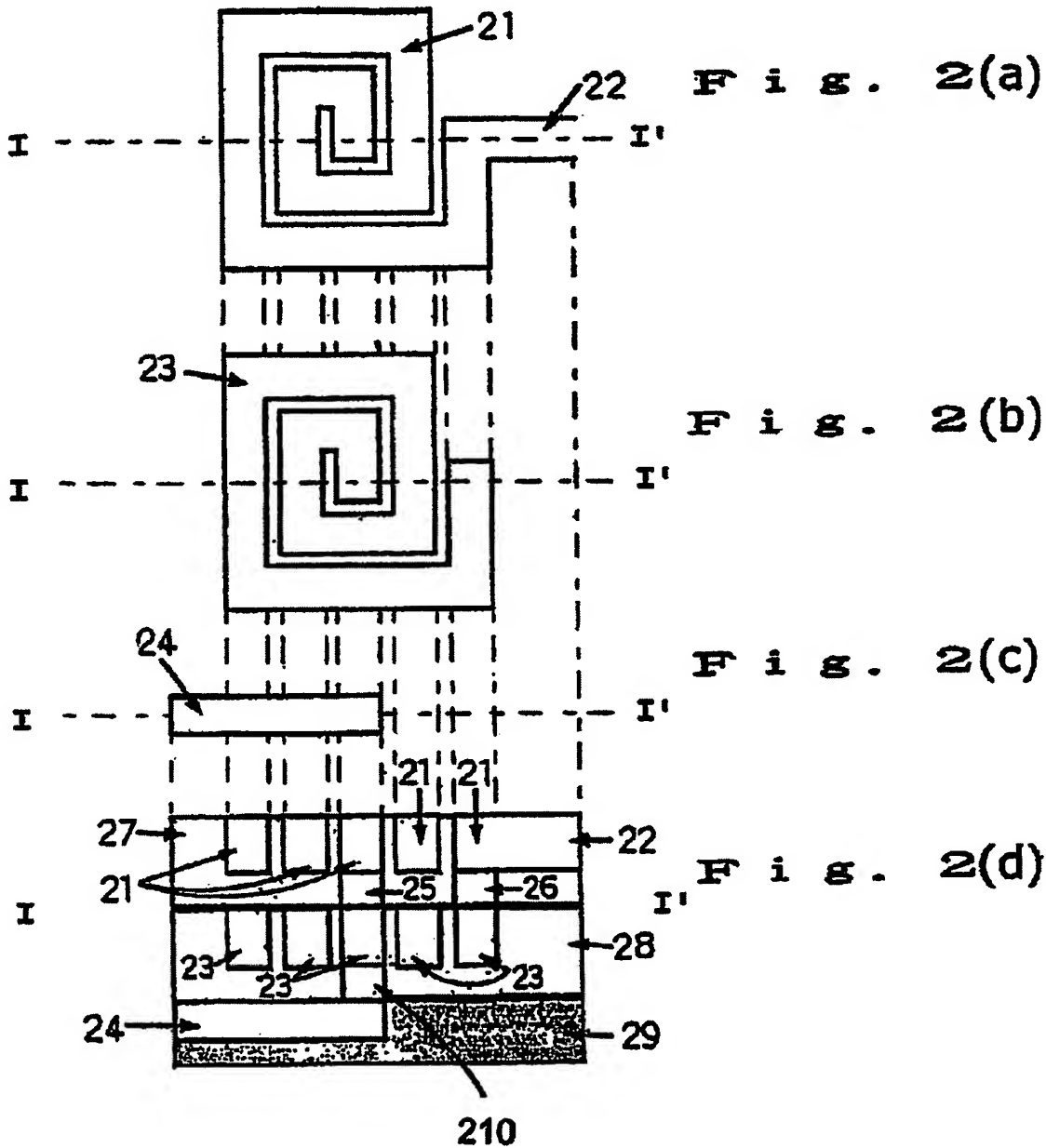
(57) **ABSTRACT**

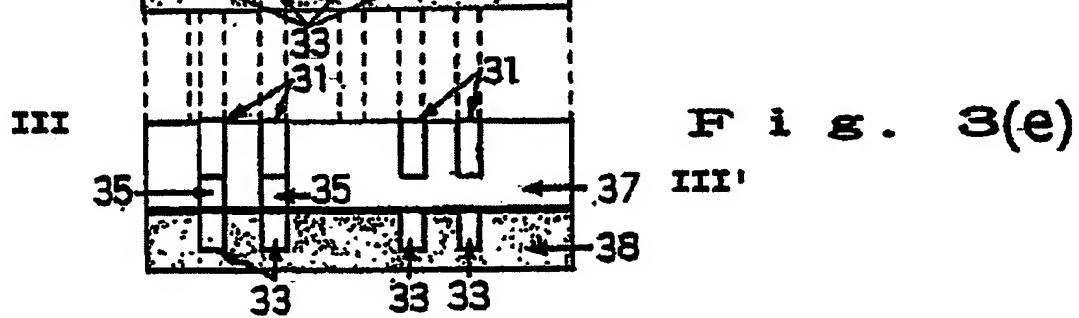
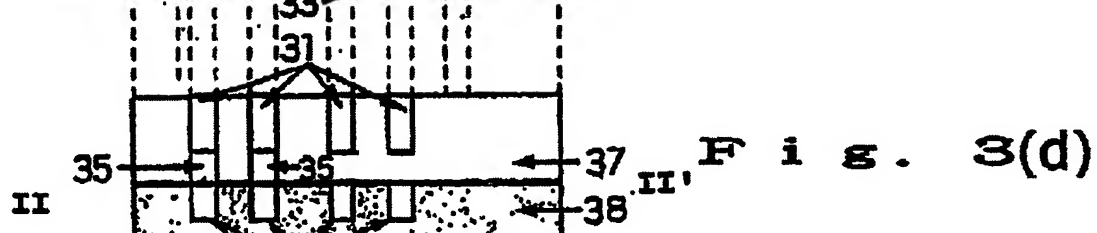
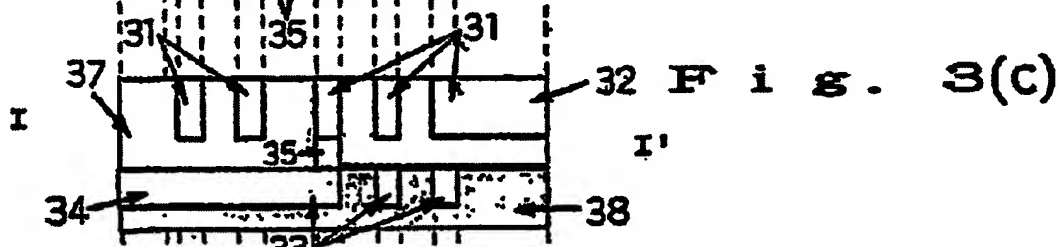
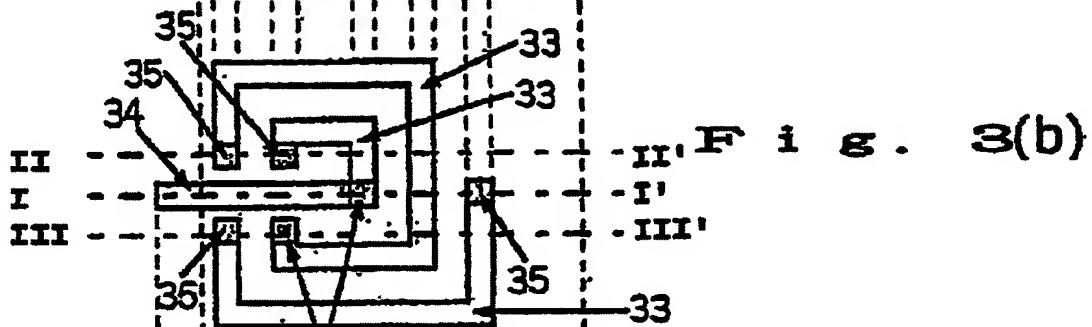
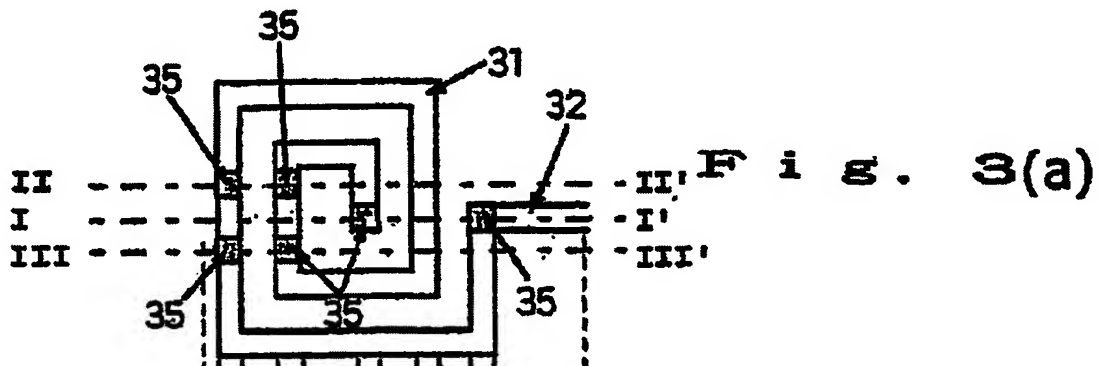
A high-Q inductor for high frequency, having a plurality of inductor elements formed in a plurality of IC wiring layers with a connection formed therebetween. The directions of the magnetic fields generated by the respective inductor elements are substantially the same. With this construction, the section of the inductor is increased reducing the serial resistance component and an influence of a skin effect in a high-frequency range is eliminated increasing the Q value.

1 Claim, 9 Drawing Sheets









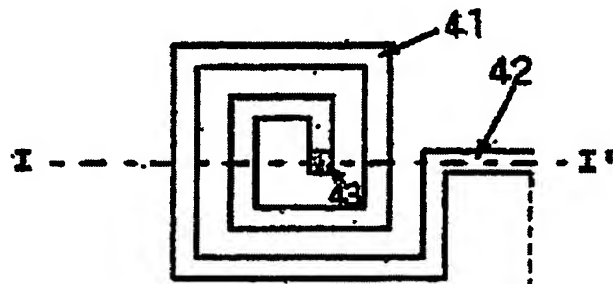


Fig. 4(a)

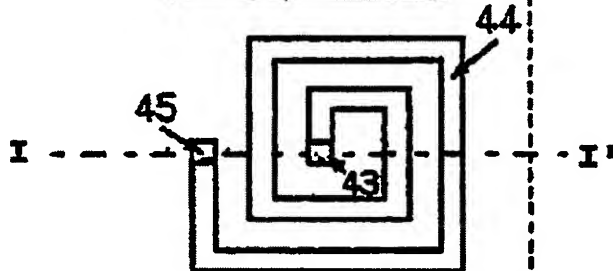


Fig. 4(b)

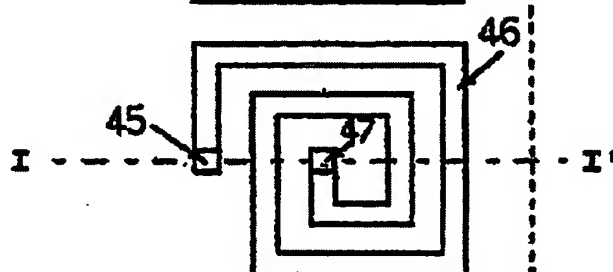


Fig. 4(c)

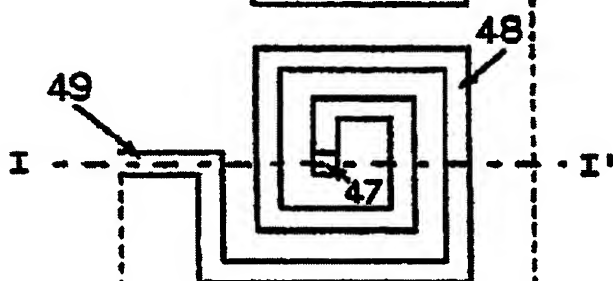


Fig. 4(d)

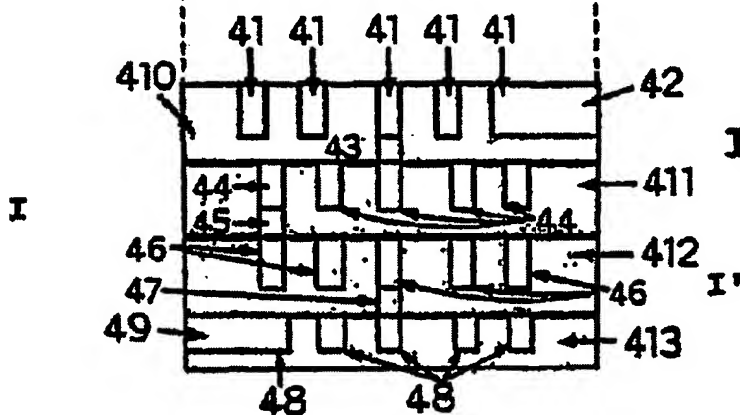


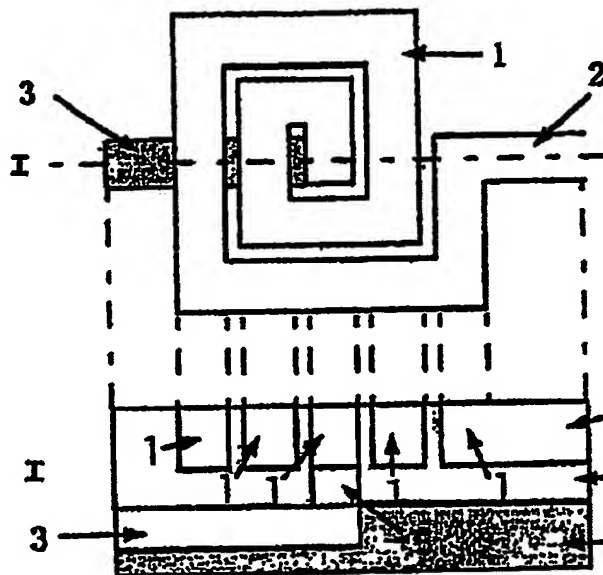
Fig. 4(e)

U.S. Patent

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PRIOR ART
F i g . 9(a)

PRIOR ART
I' F i g . 9(b)